

Title (en)  
FIBRE-REINFORCED PLASTIC CABIN FOR VEHICLE

Title (de)  
FASERVERSTÄRKTE KUNSTSTOFFKABINE FÜR EIN FAHRZEUG

Title (fr)  
CABINE EN PLASTIQUE RENFORCÉ DE FIBRES DE VERRE POUR AUTOMOBILE

Publication  
**EP 2860086 A4 20160120 (EN)**

Application  
**EP 13800157 A 20130412**

Priority  

- JP 2012130552 A 20120608
- JP 2012130554 A 20120608
- JP 2012130555 A 20120608
- JP 2012138903 A 20120620
- JP 2013061038 W 20130412

Abstract (en)  
[origin: EP2860086A1] An inclined surface (19b) which extends in the front-rear direction to boundaries of a floor panel (25) and a side sill (22) is formed in an inner skin (19) of a fibre-reinforced plastic cabin for a vehicle. As a result, when a bending moment (M) inwardly collapsing the side sill (22) in the vehicle width direction is exerted due to the impact force of a side-surface impact, collapsing of the side sill (22) can be inhibited without increasing the number and/or height of cross members (40). Furthermore, an outer skin (20) and the inclined surface (19b) of the inner skin (19) are joined to a frame member (59) which extends in the front-rear direction. As a result, deformation of the inclined surface (19b) can be inhibited. Moreover, the bending moment (M) is consequently transferred to the outer skin (20) via the frame member (59), and thus collapsing of the side sill (22) can be more reliably inhibited.

IPC 8 full level  
**B62D 25/20** (2006.01); **B62D 29/04** (2006.01)

CPC (source: CN EP US)  
**B62D 21/157** (2013.01 - EP US); **B62D 25/20** (2013.01 - US); **B62D 25/2009** (2013.01 - CN EP US); **B62D 25/2027** (2013.01 - CN EP US); **B62D 25/2036** (2013.01 - CN EP US); **B62D 29/046** (2013.01 - CN EP US); **B62D 29/048** (2013.01 - CN EP US)

Citation (search report)  

- [XA] EP 0298903 A2 19890111 - TRESER AUTOMOBILBAU GMBH WALTE [DE]
- [A] US 5020846 A 19910604 - BONNETT ROY E [US]
- [A] JP H0596238 A 19930420 - MAZDA MOTOR
- [A] DE 3011386 A1 19811001 - AUDI AG [DE]
- See references of WO 2013183359A1

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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2860086 A1 20150415; EP 2860086 A4 20160120**; CN 104349971 A 20150211; US 2015158532 A1 20150611; WO 2013183359 A1 20131212

DOCDB simple family (application)  
**EP 13800157 A 20130412**; CN 201380029814 A 20130412; JP 2013061038 W 20130412; US 201314405247 A 20130412